EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	452	ATP sulfurylase$1 or sulfate adj (adenylyltransferase$1 or (adenylyl or adenylate) adj transferase$1)	US-PGPUB; USPAT	ADJ	OFF	2007/04/25 09:01
L2	931	ATP near4 (regenerat$ or replenish$ or recycl$)	US-PGPUB; USPAT	ADJ	OFF	2007/04/25 09:02
L3	11	1 and 2	US-PGPUB; USPAT	ADJ	OFF	2007/04/25 09:26
L4	10542	(pyrophosphate or phosphate) near4 (deplet$ or reduc$ or eliminat$ or decreas$)	US-PGPUB; USPAT	ADJ	OFF	2007/04/25 09:28
L5	68	4 and 1	US-PGPUB; USPAT	ADJ	OFF	2007/04/25 10:12
L6	48	4 same (protein synth$)	US-PGPUB; USPAT	ADJ	OFF	2007/04/25 10:12

8/2/02 (102(b) date = 7/25/02)

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* * * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 12:28:02 ON 25 APR 2007

=> fil .bec
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                         0.42       0.42

FILES 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS,
       ESBIOBASE, BIOTECHNO, WPIDS' ENTERED AT 12:29:26 ON 25 APR 2007
ALL COPYRIGHTS AND RESTRICTIONS APPLY.  SEE HELP USAGETERMS FOR DETAILS.

11 FILES IN THE FILE LIST

=> s atp sulfurylase# or sulfate(w)(adenylyltransferase# or (adenylyl or
adenylate)(w)transferase#)
FILE 'MEDLINE'
        106703 ATP
           220 SULFURYLASE#
           195 ATP SULFURYLASE#
                 (ATP(W)SULFURYLASE#)
        114525 SULFATE
          1477 ADENYLYLTRANSFERASE#
          8989 ADENYLYL
         34378 ADENYLATE
         61053 TRANSFERASE#
           249 SULFATE(W)(ADENYLYLTRANSFERASE# OR (ADENYLYL OR ADENYLATE)(W)TRA
               NSFERASE#)
L1         309 ATP SULFURYLASE# OR SULFATE(W)(ADENYLYLTRANSFERASE# OR (ADENYLYL
                OR ADENYLATE)(W)TRANSFERASE#)

FILE 'SCISEARCH'
         88701 ATP
           416 SULFURYLASE#
           375 ATP SULFURYLASE#
                 (ATP(W)SULFURYLASE#)
        117058 SULFATE
           262 ADENYLYLTRANSFERASE#
         10599 ADENYLYL
         29061 ADENYLATE
         48645 TRANSFERASE#
             9 SULFATE(W)(ADENYLYLTRANSFERASE# OR (ADENYLYL OR ADENYLATE)(W)TRA
               NSFERASE#)
L2         379 ATP SULFURYLASE# OR SULFATE(W)(ADENYLYLTRANSFERASE# OR (ADENYLYL
                OR ADENYLATE)(W)TRANSFERASE#)

FILE 'LIFESCI'
         35357 "ATP"
           122 SULFURYLASE#
           113 ATP SULFURYLASE#
                 ("ATP"(W)SULFURYLASE#)
         27560 SULFATE
           318 ADENYLYLTRANSFERASE#
          2859 ADENYLYL
          9790 ADENYLATE
         15504 TRANSFERASE#
            44 SULFATE(W)(ADENYLYLTRANSFERASE# OR (ADENYLYL OR ADENYLATE)(W)TRA
               NSFERASE#)
L3         124 ATP SULFURYLASE# OR SULFATE(W)(ADENYLYLTRANSFERASE# OR (ADENYLYL
                OR ADENYLATE)(W)TRANSFERASE#)

FILE 'BIOTECHDS'
          4170 ATP
            50 SULFURYLASE#
```

```
            43 ATP SULFURYLASE#
                 (ATP(W)SULFURYLASE#)
         14718 SULFATE
            74 ADENYLYLTRANSFERASE#
           121 ADENYLYL
           517 ADENYLATE
          4397 TRANSFERASE#
            15 SULFATE(W)(ADENYLYLTRANSFERASE# OR (ADENYLYL OR ADENYLATE)(W)TRA
               NSFERASE#)
L4          52 ATP SULFURYLASE# OR SULFATE(W)(ADENYLYLTRANSFERASE# OR (ADENYLYL
                OR ADENYLATE)(W)TRANSFERASE#)

FILE 'BIOSIS'
        151329 ATP
           528 SULFURYLASE#
           495 ATP SULFURYLASE#
                 (ATP(W)SULFURYLASE#)
        152394 SULFATE
           351 ADENYLYLTRANSFERASE#
         10927 ADENYLYL
         37632 ADENYLATE
         81061 TRANSFERASE#
            36 SULFATE(W)(ADENYLYLTRANSFERASE# OR (ADENYLYL OR ADENYLATE)(W)TRA
               NSFERASE#)
L5          512 ATP SULFURYLASE# OR SULFATE(W)(ADENYLYLTRANSFERASE# OR (ADENYLYL
                OR ADENYLATE)(W)TRANSFERASE#)

FILE 'EMBASE'
         91026 "ATP"
           177 SULFURYLASE#
           149 ATP SULFURYLASE#
                 ("ATP"(W)SULFURYLASE#)
        132807 SULFATE
          1052 ADENYLYLTRANSFERASE#
          7592 ADENYLYL
         33766 ADENYLATE
         44787 TRANSFERASE#
           191 SULFATE(W)(ADENYLYLTRANSFERASE# OR (ADENYLYL OR ADENYLATE)(W)TRA
               NSFERASE#)
L6          221 ATP SULFURYLASE# OR SULFATE(W)(ADENYLYLTRANSFERASE# OR (ADENYLYL
                OR ADENYLATE)(W)TRANSFERASE#)

FILE 'HCAPLUS'
        161522 ATP
           635 SULFURYLASE#
           595 ATP SULFURYLASE#
                 (ATP(W)SULFURYLASE#)
        523643 SULFATE
           919 ADENYLYLTRANSFERASE#
          9679 ADENYLYL
         39613 ADENYLATE
         57407 TRANSFERASE#
           114 SULFATE(W)(ADENYLYLTRANSFERASE# OR (ADENYLYL OR ADENYLATE)(W)TRA
               NSFERASE#)
L7          660 ATP SULFURYLASE# OR SULFATE(W)(ADENYLYLTRANSFERASE# OR (ADENYLYL
                OR ADENYLATE)(W)TRANSFERASE#)

FILE 'NTIS'
          1304 ATP
             1 SULFURYLASE#
             1 ATP SULFURYLASE#
                 (ATP(W)SULFURYLASE#)
          6744 SULFATE
             1 ADENYLYLTRANSFERASE#
            24 ADENYLYL
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```
            142 ADENYLATE
           1415 TRANSFERASE#
              1 SULFATE(W)(ADENYLYLTRANSFERASE# OR (ADENYLYL OR ADENYLATE)(W)TRA
                NSFERASE#)
L8            1 ATP SULFURYLASE# OR SULFATE(W)(ADENYLYLTRANSFERASE# OR (ADENYLYL
                 OR ADENYLATE)(W)TRANSFERASE#)

FILE 'ESBIOBASE'
          42647 ATP
            154 SULFURYLASE#
            142 ATP SULFURYLASE#
                  (ATP(W)SULFURYLASE#)
          29207 SULFATE
            139 ADENYLYLTRANSFERASE#
           5067 ADENYLYL
           5850 ADENYLATE
          38053 TRANSFERASE#
              6 SULFATE(W)(ADENYLYLTRANSFERASE# OR (ADENYLYL OR ADENYLATE)(W)TRA
                NSFERASE#)
L9          145 ATP SULFURYLASE# OR SULFATE(W)(ADENYLYLTRANSFERASE# OR (ADENYLYL
                 OR ADENYLATE)(W)TRANSFERASE#)

FILE 'BIOTECHNO'
          31786 ATP
            116 SULFURYLASE#
            100 ATP SULFURYLASE#
                  (ATP(W)SULFURYLASE#)
          33569 SULFATE
            610 ADENYLYLTRANSFERASE#
           3044 ADENYLYL
           9740 ADENYLATE
          16723 TRANSFERASE#
            109 SULFATE(W)(ADENYLYLTRANSFERASE# OR (ADENYLYL OR ADENYLATE)(W)TRA
                NSFERASE#)
L10         135 ATP SULFURYLASE# OR SULFATE(W)(ADENYLYLTRANSFERASE# OR (ADENYLYL
                 OR ADENYLATE)(W)TRANSFERASE#)

FILE 'WPIDS'
           5123 ATP
             53 SULFURYLASE#
             39 ATP SULFURYLASE#
                  (ATP(W)SULFURYLASE#)
          56368 SULFATE
             23 ADENYLYLTRANSFERASE#
            250 ADENYLYL
            766 ADENYLATE
           7479 TRANSFERASE#
              4 SULFATE(W)(ADENYLYLTRANSFERASE# OR (ADENYLYL OR ADENYLATE)(W)TRA
                NSFERASE#)
L11          43 ATP SULFURYLASE# OR SULFATE(W)(ADENYLYLTRANSFERASE# OR (ADENYLYL
                 OR ADENYLATE)(W)TRANSFERASE#)

TOTAL FOR ALL FILES
L12         2581 ATP SULFURYLASE# OR SULFATE(W)(ADENYLYLTRANSFERASE# OR (ADENYLYL
                 OR ADENYLATE)(W) TRANSFERASE#)

=> s atp(10a)(regenerat? or replenish? or recycl?)
FILE 'MEDLINE'
         106703 ATP
          82014 REGENERAT?
           3729 REPLENISH?
          13598 RECYCL?
L13         860 ATP(10A)(REGENERAT? OR REPLENISH? OR RECYCL?)

FILE 'SCISEARCH'
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          88701 ATP
          99973 REGENERAT?
           5808 REPLENISH?
          40002 RECYCL?
L14         634 ATP(10A)(REGENERAT? OR REPLENISH? OR RECYCL?)

FILE 'LIFESCI'
          35357 ATP
          24259 REGENERAT?
           1402 REPLENISH?
           6570 RECYCL?
L15         252 ATP(10A)(REGENERAT? OR REPLENISH? OR RECYCL?)

FILE 'BIOTECHDS'
           4170 ATP
          18172 REGENERAT?
            290 REPLENISH?
           4307 RECYCL?
L16         168 ATP(10A)(REGENERAT? OR REPLENISH? OR RECYCL?)

FILE 'BIOSIS'
         151329 ATP
         102173 REGENERAT?
           8265 REPLENISH?
          21751 RECYCL?
L17        1122 ATP(10A)(REGENERAT? OR REPLENISH? OR RECYCL?)

FILE 'EMBASE'
          91026 ATP
          63248 REGENERAT?
           3335 REPLENISH?
          20918 RECYCL?
L18         772 ATP(10A)(REGENERAT? OR REPLENISH? OR RECYCL?)

FILE 'HCAPLUS'
         161522 ATP
         186377 REGENERAT?
          12193 REPLENISH?
         183191 RECYCL?
L19        1545 ATP(10A)(REGENERAT? OR REPLENISH? OR RECYCL?)

FILE 'NTIS'
           1304 ATP
           8284 REGENERAT?
           1257 REPLENISH?
          13307 RECYCL?
L20           15 ATP(10A)(REGENERAT? OR REPLENISH? OR RECYCL?)

FILE 'ESBIOBASE'
          42647 ATP
          41360 REGENERAT?
           2141 REPLENISH?
          12814 RECYCL?
L21         332 ATP(10A)(REGENERAT? OR REPLENISH? OR RECYCL?)

FILE 'BIOTECHNO'
          31786 ATP
          14446 REGENERAT?
            839 REPLENISH?
           7258 RECYCL?
L22         299 ATP(10A)(REGENERAT? OR REPLENISH? OR RECYCL?)

FILE 'WPIDS'
           5123 ATP
         105764 REGENERAT?
```

```
         18123 REPLENISH?
        106399 RECYCL?
L23          76 ATP(10A)(REGENERAT? OR REPLENISH? OR RECYCL?)

TOTAL FOR ALL FILES
L24        6075 ATP(10A)(REGENERAT? OR REPLENISH? OR RECYCL?)

=> s l12 and l24
FILE 'MEDLINE'
L25           3 L1 AND L13

FILE 'SCISEARCH'
L26           2 L2 AND L14

FILE 'LIFESCI'
L27           0 L3 AND L15

FILE 'BIOTECHDS'
L28           6 L4 AND L16

FILE 'BIOSIS'
L29           3 L5 AND L17

FILE 'EMBASE'
L30           2 L6 AND L18

FILE 'HCAPLUS'
L31          12 L7 AND L19

FILE 'NTIS'
L32           0 L8 AND L20

FILE 'ESBIOBASE'
L33           2 L9 AND L21

FILE 'BIOTECHNO'
L34           1 L10 AND L22

FILE 'WPIDS'
L35           5 L11 AND L23

TOTAL FOR ALL FILES
L36          36 L12 AND L24

=> s (pyrophosphate or phosphate)(10a)(reduc? or deplet? or eliminat? or decreas?)
FILE 'MEDLINE'
         12282 PYROPHOSPHATE
        152657 PHOSPHATE
       1379417 REDUC?
        100555 DEPLET?
        161879 ELIMINAT?
       1085646 DECREAS?
L37       12135 (PYROPHOSPHATE OR PHOSPHATE)(10A)(REDUC? OR DEPLET? OR ELIMINAT?
                OR DECREAS?)

FILE 'SCISEARCH'
         10418 PYROPHOSPHATE
        166626 PHOSPHATE
       1618895 REDUC?
        122667 DEPLET?
        183516 ELIMINAT?
       1129941 DECREAS?
L38        9909 (PYROPHOSPHATE OR PHOSPHATE)(10A)(REDUC? OR DEPLET? OR ELIMINAT?
                OR DECREAS?)
```

```
FILE 'LIFESCI'
          2558 PYROPHOSPHATE
         43434 PHOSPHATE
        344975 REDUC?
         36909 DEPLET?
         40912 ELIMINAT?
        261031 DECREAS?
L39       3859 (PYROPHOSPHATE OR PHOSPHATE)(10A)(REDUC? OR DEPLET? OR ELIMINAT?
               OR DECREAS?)

FILE 'BIOTECHDS'
           700 PYROPHOSPHATE
         21345 PHOSPHATE
         58427 REDUC?
          2547 DEPLET?
          8615 ELIMINAT?
         28280 DECREAS?
L40        968 (PYROPHOSPHATE OR PHOSPHATE)(10A)(REDUC? OR DEPLET? OR ELIMINAT?
               OR DECREAS?)

FILE 'BIOSIS'
         11411 PYROPHOSPHATE
        215182 PHOSPHATE
       1400380 REDUC?
        120515 DEPLET?
        154117 ELIMINAT?
       1191505 DECREAS?
L41      15431 (PYROPHOSPHATE OR PHOSPHATE)(10A)(REDUC? OR DEPLET? OR ELIMINAT?
               OR DECREAS?)

FILE 'EMBASE'
          9886 PYROPHOSPHATE
        188660 PHOSPHATE
       1306693 REDUC?
         98248 DEPLET?
        165313 ELIMINAT?
       1010393 DECREAS?
L42      28507 (PYROPHOSPHATE OR PHOSPHATE)(10A)(REDUC? OR DEPLET? OR ELIMINAT?
               OR DECREAS?)

FILE 'HCAPLUS'
         40821 PYROPHOSPHATE
        566276 PHOSPHATE
       2201142 REDUC?
        933901 REDN
       2710201 REDUC?
                 (REDUC? OR REDN)
        169255 DEPLET?
        377871 ELIMINAT?
       2369503 DECREAS?
L43      32588 (PYROPHOSPHATE OR PHOSPHATE)(10A)(REDUC? OR DEPLET? OR ELIMINAT?
               OR DECREAS?)

FILE 'NTIS'
           249 PYROPHOSPHATE
          6511 PHOSPHATE
        187365 REDUC?
          8133 DEPLET?
         30496 ELIMINAT?
         53421 DECREAS?
L44        379 (PYROPHOSPHATE OR PHOSPHATE)(10A)(REDUC? OR DEPLET? OR ELIMINAT?
               OR DECREAS?)

FILE 'ESBIOBASE'
          2721 PYROPHOSPHATE
```

```
         52982 PHOSPHATE
        534645 REDUC?
         47244 DEPLET?
         51375 ELIMINAT?
        418954 DECREAS?
L45       4979 (PYROPHOSPHATE OR PHOSPHATE)(10A)(REDUC? OR DEPLET? OR ELIMINAT?
               OR DECREAS?)

FILE 'BIOTECHNO'
         2405 PYROPHOSPHATE
        51707 PHOSPHATE
       232937 REDUC?
        25560 DEPLET?
        29224 ELIMINAT?
       171676 DECREAS?
L46       7909 (PYROPHOSPHATE OR PHOSPHATE)(10A)(REDUC? OR DEPLET? OR ELIMINAT?
               OR DECREAS?)

FILE 'WPIDS'
         6729 PYROPHOSPHATE
       124841 PHOSPHATE
      2451018 REDUC?
        63342 REDN
      2477819 REDUC?
                (REDUC? OR REDN)
        16347 DEPLET?
       545849 ELIMINAT?
       267092 DECREAS?
L47       3765 (PYROPHOSPHATE OR PHOSPHATE)(10A)(REDUC? OR DEPLET? OR ELIMINAT?
               OR DECREAS?)

TOTAL FOR ALL FILES
L48     120429 (PYROPHOSPHATE OR PHOSPHATE)(10A)(REDUC? OR DEPLET? OR ELIMINAT?
               OR DECREAS?)

=> s l12 and l48
FILE 'MEDLINE'
L49          5 L1 AND L37

FILE 'SCISEARCH'
L50          2 L2 AND L38

FILE 'LIFESCI'
L51          3 L3 AND L39

FILE 'BIOTECHDS'
L52          6 L4 AND L40

FILE 'BIOSIS'
L53          9 L5 AND L41

FILE 'EMBASE'
L54          7 L6 AND L42

FILE 'HCAPLUS'
L55         16 L7 AND L43

FILE 'NTIS'
L56          0 L8 AND L44

FILE 'ESBIOBASE'
L57          2 L9 AND L45

FILE 'BIOTECHNO'
L58          5 L10 AND L46
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```
FILE 'WPIDS'
L59           5 L11 AND L47

TOTAL FOR ALL FILES
L60          60 L12 AND L48

=> s l48 and (protein synth?)
FILE 'MEDLINE'
       1655895 PROTEIN
        747112 SYNTH?
         56412 PROTEIN SYNTH?
                 (PROTEIN(W)SYNTH?)
L61        145 L37 AND (PROTEIN SYNTH?)

FILE 'SCISEARCH'
       1386429 PROTEIN
       1236093 SYNTH?
         46977 PROTEIN SYNTH?
                 (PROTEIN(W)SYNTH?)
L62         90 L38 AND (PROTEIN SYNTH?)

FILE 'LIFESCI'
        544735 "PROTEIN"
        213702 SYNTH?
         18060 PROTEIN SYNTH?
                 ("PROTEIN"(W)SYNTH?)
L63         34 L39 AND (PROTEIN SYNTH?)

FILE 'BIOTECHDS'
        159828 PROTEIN
         56308 SYNTH?
          1749 PROTEIN SYNTH?
                 (PROTEIN(W)SYNTH?)
L64          4 L40 AND (PROTEIN SYNTH?)

FILE 'BIOSIS'
       1663442 PROTEIN
        936139 SYNTH?
         77875 PROTEIN SYNTH?
                 (PROTEIN(W)SYNTH?)
L65        181 L41 AND (PROTEIN SYNTH?)

FILE 'EMBASE'
       1618442 "PROTEIN"
        829323 SYNTH?
         89335 PROTEIN SYNTH?
                 ("PROTEIN"(W)SYNTH?)
L66        442 L42 AND (PROTEIN SYNTH?)

FILE 'HCAPLUS'
       1997460 PROTEIN
       2258043 SYNTH?
         78307 PROTEIN SYNTH?
                 (PROTEIN(W)SYNTH?)
L67        281 L43 AND (PROTEIN SYNTH?)

FILE 'NTIS'
         13942 PROTEIN
         61103 SYNTH?
           662 PROTEIN SYNTH?
                 (PROTEIN(W)SYNTH?)
L68          3 L44 AND (PROTEIN SYNTH?)

FILE 'ESBIOBASE'
```

```
        703709 PROTEIN
        299039 SYNTH?
         43248 PROTEIN SYNTH?
                 (PROTEIN(W)SYNTH?)
L69        116 L45 AND (PROTEIN SYNTH?)

FILE 'BIOTECHNO'
        623255 PROTEIN
        228521 SYNTH?
         33016 PROTEIN SYNTH?
                 (PROTEIN(W)SYNTH?)
L70        148 L46 AND (PROTEIN SYNTH?)

FILE 'WPIDS'
        162116 PROTEIN
        398135 SYNTH?
          1749 PROTEIN SYNTH?
                 (PROTEIN(W)SYNTH?)
L71          5 L47 AND (PROTEIN SYNTH?)

TOTAL FOR ALL FILES
L72       1449 L48 AND (PROTEIN SYNTH?)

=> s 148(15a)(protein synth?)
FILE 'MEDLINE'
       1655895 PROTEIN
        747112 SYNTH?
         56412 PROTEIN SYNTH?
                 (PROTEIN(W)SYNTH?)
L73         22 L37(15A)(PROTEIN SYNTH?)

FILE 'SCISEARCH'
       1386429 PROTEIN
       1236093 SYNTH?
         46977 PROTEIN SYNTH?
                 (PROTEIN(W)SYNTH?)
L74          9 L38(15A)(PROTEIN SYNTH?)

FILE 'LIFESCI'
        544735 "PROTEIN"
        213702 SYNTH?
         18060 PROTEIN SYNTH?
                 ("PROTEIN"(W)SYNTH?)
L75         14 L39(15A)(PROTEIN SYNTH?)

FILE 'BIOTECHDS'
        159828 PROTEIN
         56308 SYNTH?
          1749 PROTEIN SYNTH?
                 (PROTEIN(W)SYNTH?)
L76          0 L40(15A)(PROTEIN SYNTH?)

FILE 'BIOSIS'
       1663442 PROTEIN
        936139 SYNTH?
         77875 PROTEIN SYNTH?
                 (PROTEIN(W)SYNTH?)
L77         38 L41(15A)(PROTEIN SYNTH?)

FILE 'EMBASE'
       1618442 "PROTEIN"
        829323 SYNTH?
         89335 PROTEIN SYNTH?
                 ("PROTEIN"(W)SYNTH?)
L78         19 L42(15A)(PROTEIN SYNTH?)
```

```
FILE 'HCAPLUS'
       1997460 PROTEIN
       2258043 SYNTH?
         78307 PROTEIN SYNTH?
                 (PROTEIN(W)SYNTH?)
L79          35 L43(15A)(PROTEIN SYNTH?)

FILE 'NTIS'
         13942 PROTEIN
         61103 SYNTH?
           662 PROTEIN SYNTH?
                 (PROTEIN(W)SYNTH?)
L80           2 L44(15A)(PROTEIN SYNTH?)

FILE 'ESBIOBASE'
        703709 PROTEIN
        299039 SYNTH?
         43248 PROTEIN SYNTH?
                 (PROTEIN(W)SYNTH?)
L81          11 L45(15A)(PROTEIN SYNTH?)

FILE 'BIOTECHNO'
        623255 PROTEIN
        228521 SYNTH?
         33016 PROTEIN SYNTH?
                 (PROTEIN(W)SYNTH?)
L82          13 L46(15A)(PROTEIN SYNTH?)

FILE 'WPIDS'
        162116 PROTEIN
        398135 SYNTH?
          1749 PROTEIN SYNTH?
                 (PROTEIN(W)SYNTH?)
L83           2 L47(15A)(PROTEIN SYNTH?)

TOTAL FOR ALL FILES
L84         165 L48(15A)(PROTEIN SYNTH?)

=> s (l36 or l60 or l84) not 2003-2007/py
FILE 'MEDLINE'
       2670177 2003-2007/PY
                 (20030000-20079999/PY)
L85          28 (L25 OR L49 OR L73) NOT 2003-2007/PY

FILE 'SCISEARCH'
       4908526 2003-2007/PY
                 (20030000-20079999/PY)
L86          11 (L26 OR L50 OR L74) NOT 2003-2007/PY

FILE 'LIFESCI'
        501193 2003-2007/PY
L87          15 (L27 OR L51 OR L75) NOT 2003-2007/PY

FILE 'BIOTECHDS'
        112986 2003-2007/PY
L88           4 (L28 OR L52 OR L76) NOT 2003-2007/PY

FILE 'BIOSIS'
       2360388 2003-2007/PY
L89          48 (L29 OR L53 OR L77) NOT 2003-2007/PY

FILE 'EMBASE'
       2326388 2003-2007/PY
L90          26 (L30 OR L54 OR L78) NOT 2003-2007/PY
```

```
FILE 'HCAPLUS'
       5183708 2003-2007/PY
L91          49 (L31 OR L55 OR L79) NOT 2003-2007/PY

FILE 'NTIS'
         64894 2003-2007/PY
L92           2 (L32 OR L56 OR L80) NOT 2003-2007/PY

FILE 'ESBIOBASE'
       1374918 2003-2007/PY
L93          13 (L33 OR L57 OR L81) NOT 2003-2007/PY

FILE 'BIOTECHNO'
        122467 2003-2007/PY
L94          19 (L34 OR L58 OR L82) NOT 2003-2007/PY

FILE 'WPIDS'
       4395528 2003-2007/PY
L95           1 (L35 OR L59 OR L83) NOT 2003-2007/PY

TOTAL FOR ALL FILES
L96         216 (L36 OR L60 OR L84) NOT 2003-2007/PY

=> dup rem l96
PROCESSING COMPLETED FOR L96
L97          102 DUP REM L96 (114 DUPLICATES REMOVED)

=> d tot

L97   ANSWER 1 OF 102  BIOTECHDS COPYRIGHT 2007 THE THOMSON CORP. on STN
TI    Manufacturing 3'-phosphoadenosine 5'-phosphosulfate involves using supply
      and regenerating system comprising adenosine 5'-monophosphoric acid,
      polyphosphoric acid, polyphosphoric acid kinase and adenylate kinase;
         using adenosine-5'-triphosphoric-acid-sulfurylase,
         adenylylsulfate-kinase and pyrophosphotase
AN    2002-17396  BIOTECHDS
PI    JP 2002078498 19 Mar 2002

L97   ANSWER 2 OF 102  BIOTECHDS COPYRIGHT 2007 THE THOMSON CORP. on STN
TI    Novel mycobacterial sulfation pathway polypeptide useful in in vitro
      cell-free assay for identifying agent that reduces the activity of the
      polypeptide;
         recombinant protein production and its encoding gene useful for
         bacterium infection gene therapy
AU    BERTOZZI C; WILLIAMS S J; MOUGOUS J
AN    2003-07476  BIOTECHDS
PI    WO 2002086067 31 Oct 2002

L97   ANSWER 3 OF 102  BIOTECHDS COPYRIGHT 2007 THE THOMSON CORP. on STN
TI    New cysD, N, K, E and H genes from coryneform bacteria, useful, when over
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         vector plasmid pEC-XK99E-mediated recombinant protein gene transfer
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PI    DE 10136986 21 Mar 2002

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=> d ab 18,50,51,55-57,70

L97 ANSWER 18 OF 102 MEDLINE on STN DUPLICATE 12
AB A new approach for the regeneration of adenosine triphosphate (ATP) during cell-free protein synthesis was developed to prolong the synthesis and also to avoid the accumulation of inorganic phosphate. This approach was demonstrated in a batch system derived from Escherichia coli. Contrary to the conventional methods in which exogenous energy sources contain high-energy phosphate bonds, the new system was designed to generate continuously the required high-energy phosphate bonds within the reaction mixture, thereby recycling the phosphate released during protein synthesis. If allowed to accumulate, phosphate inhibits protein synthesis, most likely by reducing the concentration of free magnesium ion. Pediococcus sp. pyruvate oxidase, when introduced in the reaction mixture along with thiamine pyrophosphate (TPP) and flavin adenine dinucleotide (FAD), catalyzed the generation of acetyl phosphate from pyruvate and inorganic phosphate. Acetyl kinase, already present with sufficient activity in Escherichia coli S30 extract, then catalyzed the regeneration of ATP. Oxygen is required for the generation of acetyl phosphate and the H(2)O(2) produced as a byproduct is sufficiently degraded by endogenous catalase activity. Through the continuous supply of chemical energy, and also through the prevention of inorganic phosphate accumulation, the duration of protein synthesis is extended up to 2 h. Protein accumulation levels also increase. The synthesis of human lymphotoxin receives greater benefit than than that of chloramphenicol acetyl transferase, because the former is more sensitive to phosphate inhibition. Finally, through repeated addition of pyruvate and amino acids during the reaction period, protein synthesis continued for 6 h in the new system, resulting in a final yield of 0.7 mg/mL.

L97 ANSWER 50 OF 102 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN
AB An RNA-DNA hybridization assay was used to quantitate the ribonucleoside diphosphate reductase mRNA synthesis (nrd mRNA) to show the gene expression was dependent on protein synthesis. The increased nrd mRNA synthesis induced by inhibition of DNA synthesis was eliminated by simultaneous inhibition of protein synthesis. Protein synthesis is required not only initially but continuously during DNA inhibition for increased expression of nrd mRNA synthesis.

L97 ANSWER 51 OF 102 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN DUPLICATE 26
AB The requirements for in vitro mitochondrial protein synthesis were studied using isolated mitochondria from cultured adrenal Y-1 tumor cells from mice. Sodium dodecyl sulfate(SDS)-polyacrylamide gel electrophoresis and autoradiography were used to evaluate the translation products. With the optimized system, 1-3% of added [35S]methionine was incorporated. The products of mitochondrial protein synthesis range from 70,000 to 5000 MW. Major autoradiographic bands were observed at 38,000, 31,000, 23,000, 20,000 and 5600 MW; 20-30 protein products of various molecular weights were discernible. Mitochondrial concentrations of 0.8-1.4 mg/ml of incubation gave the better incorporation of [35S]methionine per milligram of protein. Total [35S]methionine incorporation was greatest at 25° C after 90 min. Chloramphenicol inhibited mitochondrial protein synthesis. Cycloheximide had no effect on incorporation at less than 1.0 mg/ml. Mg and ATP in a molar ratio of 1:1 at 5 mM gave optimal incorporation. Other energy generating systems using oxidative phosphorylation to supply ATP for protein synthesis were not as effective as ATP and 5 mM phosphoenol pyruvate, 20 μg/ml pyruvate kinase and 5 mM α-ketoglutarate. No enhancement of in vitro adrenal cell mitochondrial protein synthesis was found with GTP or its analogs.

N,N-bis(2-hydroxyethyl)glycine, N-(tris(hydroxymethyl)methyl)glycine, and N-2-hydroxyethylpiperazine-N'-2-ethanesulfonic acid were superior to Tris-HCl for mitochondrial protein synthesis. Optimal pH for [35S]methionine incorporation was pH 7.0-7.6. Potassium at 50-90 mM gave the best incorporation of [35S]methionine, and the higher molecular weight products of translation were enhanced at these concentrations. Na and Ca inhibited mitochondrial protein synthesis. Phosphate reduced the amount of mitochondrial protein synthesis. Limited methionine did affect the total amount of protein synthesized, but it had little or no effect on the distribution of label into the different proteins. The maximum rate of incorporation was 20 pmol at 100 μM methionine/mg of mitochondria at 40 min of incubation. Optimal concentrations for the other 18 amino acids were at 30 μg/ml with lesser concentrations reducing the labeled methionine incorporation as well as altering the pattern of proteins synthesized. For osmolarity control, mannitol was superior to sucrose and exhibited an optimal range of 40 to 100 mM. Bovine serum albumin was judged to be nonessential. Many other compounds which were studied had either no effect or were inhibitory to mitochondrial protein synthesis.

L97 ANSWER 55 OF 102 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN DUPLICATE 28

AB The study of gel-filtered rabbit reticulocyte lysates and lysates which have been passed through 2'5'ADP-Sepharose columns showed that the presence of a sugar phosphate and a reducing system is necessary to maintain maximum rates of protein synthesis and to prevent an early inhibition. The inhibition is due to a reduced rate of initiation of translation and a decrease in the level of methionyl-tRNAf·40S-ribosomal-subunit complexes. Sugar phosphates and reducing agents act co-operatively to prevent these changes: the absence of either sugar phosphates or reducing agents leads to a decrease in polysomes and in methionyl-tRNA·40S-subunit complexes. The requirements for reducing power can be satisfied by either dithiothreitol or by an NADPH-generating system together with a functional thioredoxin/thioredoxin reductase system; evidence is presented to show that these are required for the reduction of S-S bonds. Incubation of lysates in the absence of a suitable reducing system leads to S-S bond formation in a limited number of proteins present in the lysate, but no S-S bonds could be detected in initiation factor eIF-2, the protein which catalyzes the formation of methionyl-tRNA·40S-subunit complexes. When these lysates were incubated under conditions in which protein synthesis is inhibited, eIF-2 was phosphorylated in the smallest of its 3 polypeptide chains (eIF-2α). The phosphorylation of eIF-2α is controlled by the presence or absence of a suitable reducing system but not by sugar phosphates; it appears to be caused by activation of a protein kinase rather than through regulation of the rate of dephosphorylation of this protein. Sugar phosphates probably do not control the phosphorylation of eIF-2 but play some role as an activating cofactor affecting the rate of initiation of protein synthesis. The presence of a suitable reducing system is required to prevent or reverse S-S bond formation in some critical protein(s) in the lysate; the oxidation of SH groups in this protein leads to activation of an eIF-2 kinase and hence to inhibition of initiation.

L97 ANSWER 56 OF 102 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN DUPLICATE 29

AB Rabbit reticulocyte lysates were passed through 2'5'ADP-Sepharose columns under conditions in which the gel-filtration effect was negligible and low-molecular-weight compounds were retained in the flow-through lysate. Glucose-6-phosphate dehydrogenase [EC 1.1.1.49], 6-phosphogluconate dehydrogenase [EC 1.1.1.44] and glutathione reductase [EC 1.6.4.2] were quantitatively adsorbed by the column and removed from the lysate, but isocitrate dehydrogenase [EC 1.1.1.42] and thioredoxin reductase were retained in the flow-through lysate. The initial rate of protein synthesis in lysates treated in this way was normal, but synthesis stopped

after about 20 min of incubation. This shut-off could be prevented by the addition of dithiothreitol or by providing a means of NADPH generation, which could be achieved either by adding isocitrate or glucose-6-phosphate dehydrogenase. Further experiments used lysates which were first gel-filtered to remove low-molecular-weight metabolites and then passed through 2'5'ADP-Sepharose columns. Under these conditions thioredoxin reductase was efficiently adsorbed by the affinity column, in addition to the 3 enzymes already listed. The maintenance of full protein synthesis activity in these lysates required the addition of both a sugar phosphate and a reducing agent. The sugar phosphate requirement could be satisfied by G-6-P, or 2-deoxyglucose 6-phosphate, or fructose 1,6-bisphosphate, but not by 6-phosphogluconic acid. The requirement for reducing agent could be met by the addition of dithiothreitol, or by an NADPH-generating system together with rabbit thioredoxin reductase. Purified thioredoxin reductase from Escherichia coli was also effective provided E. coli thioredoxin was also added, but the addition of glutathione with glutathione reductase did not activate protein synthesis. There is a dual requirement for the maintenance of high rates of protein synthesis in reticulocyte lysates: certain sugar phosphates must be present, in addition to an NADPH-generating system and a functional thioredoxin/thioredoxin reductase system.

L97 ANSWER 57 OF 102 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN DUPLICATE 30

AB When rabbit reticulocyte lysates were gel-filtered on Sephadex G-25 or G-50, the rate of protein synthesis in the gel-filtered lysate was the same as in the parent lysate provided appropriate concentrations of ATP, GTP and spermidine or spermine were added. The polyamines increased the rate of synthesis and lowered the Mg2+ optimum. Although gel-filtered lysates prepared in this way synthesize protein at a high initial rate, this rate is maintained for only about 20 min, after which it declines rapidly to a very low rate, even though optimal concentrations of hemin are present. This shut-off was completely prevented by the addition of low concentrations of sugar phosphates capable of acting as NADPH generators: G-6-P, 2-deoxyglucose 6-phosphate, ribulose 5-phosphate and ribose 5-phosphate. Although the addition of isocitrate resulted in the generation of NADPH, the stimulation of protein synthesis was normally less than was achieved with G-6-P. Dithiothreitol also promoted only partial activation, as did fructose 1,6-bisphosphate, a sugar phosphate which does not generate NADPH in this system. Full stimulation was observed, however, when both fructose 1,6-bisphosphate and either dithiothreitol or isocitrate were added. It is argued that the maintenance of maximum rates of protein synthesis in gel-filtered lysates requires the presence of both a sugar phosphate and a reducing agent, which can be dithiothreitol or an NADPH-generating system. Low concentrations of thioredoxin were required for the stimulatory effect of NADPH-generating systems, but not for stimulation by dithiothreitol. A recommended procedure is given for the preparation of highly active gel-filtered lysates and gel-filtered nuclease-treated lysates.

L97 ANSWER 70 OF 102 MEDLINE on STN DUPLICATE 33

AB Inorganic phosphate inhibited the biosynthesis of the macrolide antibiotic turimycin in different strains of Streptomyces hygroscopicus. In the wild type strain a depression was observed with increasing phosphate concentrations. A total inhibition was found at 0.1 M phosphate. In a high producing mutant a minimum of turimycin production occured when the phosphate concentration was between 5 mM and 10 mM. Above this concentration the antibiotic synthesis increased again but the production period shifted to a later period of cultivation. Addition of inorganic phosphate resulted in an initial increase of intracellular cyclic AMP content. But a second elevation characterizing the normal level of cyclic AMP throughout the growth phase was prevented by phosphate. Exogenous cyclic AMP as well as positive effectors of the adenylyl cyclase system were able to overcome the phosphate suppression. Cyclic AMP abolished the

reduction of protein synthesis following
phosphate addition and caused the reappearance of a protein band
which may be responsible for the turimycin biosynthesis.

```
=> s (pyrophosphate)(10a)(reduc? or deplet? or eliminat? or decreas?)
FILE 'MEDLINE'
        12282 PYROPHOSPHATE
      1379417 REDUC?
       100555 DEPLET?
       161879 ELIMINAT?
      1085646 DECREAS?
L98        479 (PYROPHOSPHATE)(10A)(REDUC? OR DEPLET? OR ELIMINAT? OR DECREAS?)

FILE 'SCISEARCH'
        10418 PYROPHOSPHATE
      1618895 REDUC?
       122667 DEPLET?
       183516 ELIMINAT?
      1129941 DECREAS?
L99        373 (PYROPHOSPHATE)(10A)(REDUC? OR DEPLET? OR ELIMINAT? OR DECREAS?)

FILE 'LIFESCI'
         2558 PYROPHOSPHATE
       344975 REDUC?
        36909 DEPLET?
        40912 ELIMINAT?
       261031 DECREAS?
L100       129 (PYROPHOSPHATE)(10A)(REDUC? OR DEPLET? OR ELIMINAT? OR DECREAS?)

FILE 'BIOTECHDS'
          700 PYROPHOSPHATE
        58427 REDUC?
         2547 DEPLET?
         8615 ELIMINAT?
        28280 DECREAS?
L101        32 (PYROPHOSPHATE)(10A)(REDUC? OR DEPLET? OR ELIMINAT? OR DECREAS?)

FILE 'BIOSIS'
        11411 PYROPHOSPHATE
      1400380 REDUC?
       120515 DEPLET?
       154117 ELIMINAT?
      1191505 DECREAS?
L102       567 (PYROPHOSPHATE)(10A)(REDUC? OR DEPLET? OR ELIMINAT? OR DECREAS?)

FILE 'EMBASE'
         9886 PYROPHOSPHATE
      1306693 REDUC?
        98248 DEPLET?
       165313 ELIMINAT?
      1010393 DECREAS?
L103       406 (PYROPHOSPHATE)(10A)(REDUC? OR DEPLET? OR ELIMINAT? OR DECREAS?)

FILE 'HCAPLUS'
        40821 PYROPHOSPHATE
      2201142 REDUC?
       933901 REDN
      2710201 REDUC?
                (REDUC? OR REDN)
       169255 DEPLET?
       377871 ELIMINAT?
      2369503 DECREAS?
L104      1835 (PYROPHOSPHATE)(10A)(REDUC? OR DEPLET? OR ELIMINAT? OR DECREAS?)
```

```
FILE 'NTIS'
          249 PYROPHOSPHATE
       187365 REDUC?
         8133 DEPLET?
        30496 ELIMINAT?
        53421 DECREAS?
L105       13 (PYROPHOSPHATE)(10A)(REDUC? OR DEPLET? OR ELIMINAT? OR DECREAS?)

FILE 'ESBIOBASE'
         2721 PYROPHOSPHATE
       534645 REDUC?
        47244 DEPLET?
        51375 ELIMINAT?
       418954 DECREAS?
L106      209 (PYROPHOSPHATE)(10A)(REDUC? OR DEPLET? OR ELIMINAT? OR DECREAS?)

FILE 'BIOTECHNO'
         2405 PYROPHOSPHATE
       232937 REDUC?
        25560 DEPLET?
        29224 ELIMINAT?
       171676 DECREAS?
L107      151 (PYROPHOSPHATE)(10A)(REDUC? OR DEPLET? OR ELIMINAT? OR DECREAS?)

FILE 'WPIDS'
         6729 PYROPHOSPHATE
      2451018 REDUC?
        63342 REDN
      2477819 REDUC?
                (REDUC? OR REDN)
        16347 DEPLET?
       545849 ELIMINAT?
       267092 DECREAS?
L108      172 (PYROPHOSPHATE)(10A)(REDUC? OR DEPLET? OR ELIMINAT? OR DECREAS?)

TOTAL FOR ALL FILES
L109     4366 (PYROPHOSPHATE)(10A)(REDUC? OR DEPLET? OR ELIMINAT? OR DECREAS?)


=> s l109 and (protein synth?)
FILE 'MEDLINE'
      1655895 PROTEIN
       747112 SYNTH?
        56412 PROTEIN SYNTH?
                (PROTEIN(W)SYNTH?)
L110       15 L98 AND (PROTEIN SYNTH?)

FILE 'SCISEARCH'
      1386429 PROTEIN
      1236093 SYNTH?
        46977 PROTEIN SYNTH?
                (PROTEIN(W)SYNTH?)
L111        4 L99 AND (PROTEIN SYNTH?)

FILE 'LIFESCI'
       544735 "PROTEIN"
       213702 SYNTH?
        18060 PROTEIN SYNTH?
                ("PROTEIN"(W)SYNTH?)
L112        2 L100 AND (PROTEIN SYNTH?)

FILE 'BIOTECHDS'
       159828 PROTEIN
        56308 SYNTH?
         1749 PROTEIN SYNTH?
```

```
                (PROTEIN(W)SYNTH?)
L113          0 L101 AND (PROTEIN SYNTH?)

FILE 'BIOSIS'
       1663442 PROTEIN
        936139 SYNTH?
         77875 PROTEIN SYNTH?
                (PROTEIN(W)SYNTH?)
L114          8 L102 AND (PROTEIN SYNTH?)

FILE 'EMBASE'
       1618442 "PROTEIN"
        829323 SYNTH?
         89335 PROTEIN SYNTH?
                ("PROTEIN"(W)SYNTH?)
L115         14 L103 AND (PROTEIN SYNTH?)

FILE 'HCAPLUS'
       1997460 PROTEIN
       2258043 SYNTH?
         78307 PROTEIN SYNTH?
                (PROTEIN(W)SYNTH?)
L116         21 L104 AND (PROTEIN SYNTH?)

FILE 'NTIS'
          13942 PROTEIN
          61103 SYNTH?
            662 PROTEIN SYNTH?
                (PROTEIN(W)SYNTH?)
L117          0 L105 AND (PROTEIN SYNTH?)

FILE 'ESBIOBASE'
         703709 PROTEIN
         299039 SYNTH?
          43248 PROTEIN SYNTH?
                (PROTEIN(W)SYNTH?)
L118          9 L106 AND (PROTEIN SYNTH?)

FILE 'BIOTECHNO'
         623255 PROTEIN
         228521 SYNTH?
          33016 PROTEIN SYNTH?
                (PROTEIN(W)SYNTH?)
L119          4 L107 AND (PROTEIN SYNTH?)

FILE 'WPIDS'
         162116 PROTEIN
         398135 SYNTH?
           1749 PROTEIN SYNTH?
                (PROTEIN(W)SYNTH?)
L120          0 L108 AND (PROTEIN SYNTH?)

TOTAL FOR ALL FILES
L121         77 L109 AND (PROTEIN SYNTH?)

=> s l121 not 2003-2007/py
FILE 'MEDLINE'
       2670177 2003-2007/PY
                (20030000-20079999/PY)
L122         15 L110 NOT 2003-2007/PY

FILE 'SCISEARCH'
       4908526 2003-2007/PY
                (20030000-20079999/PY)
L123          4 L111 NOT 2003-2007/PY
```

```
FILE 'LIFESCI'
        501193 2003-2007/PY
L124         2 L112 NOT 2003-2007/PY

FILE 'BIOTECHDS'
        112986 2003-2007/PY
L125         0 L113 NOT 2003-2007/PY

FILE 'BIOSIS'
       2360388 2003-2007/PY
L126         8 L114 NOT 2003-2007/PY

FILE 'EMBASE'
       2326388 2003-2007/PY
L127        12 L115 NOT 2003-2007/PY

FILE 'HCAPLUS'
       5183708 2003-2007/PY
L128        21 L116 NOT 2003-2007/PY

FILE 'NTIS'
         64894 2003-2007/PY
L129         0 L117 NOT 2003-2007/PY

FILE 'ESBIOBASE'
       1374918 2003-2007/PY
L130         9 L118 NOT 2003-2007/PY

FILE 'BIOTECHNO'
        122467 2003-2007/PY
L131         4 L119 NOT 2003-2007/PY

FILE 'WPIDS'
       4395528 2003-2007/PY
L132         0 L120 NOT 2003-2007/PY

TOTAL FOR ALL FILES
L133        75 L121 NOT 2003-2007/PY

=> dup rem l133
PROCESSING COMPLETED FOR L133
L134        31 DUP REM L133 (44 DUPLICATES REMOVED)

=> d tot

L134  ANSWER 1 OF 31  Elsevier BIOBASE  COPYRIGHT 2007 Elsevier Science B.V. on
      STN
AN    2002197790   ESBIOBASE
TI    Autophosphorylation of the mammalian multifunctional protein that
      initiates de novo pyrimidine biosynthesis
AU    Sigoillot F.D.; Evans D.R.; Guy H.I.
CS    H.I. Guy, Dept. of Molecular Biology, Wayne State Univ. School of
      Medicine, 540 E. Canfield Ave., Detroit, MI 48201, United States.
      E-mail: hguy@cmb.biosci.wayne.edu
SO    Journal of Biological Chemistry, (05 JUL 2002), 277/27 (24809-24817), 45
      reference(s)
      CODEN: JBCHA3  ISSN: 0021-9258
DT    Journal; Article
CY    United States
LA    English
SL    English

L134 ANSWER 2 OF 31     MEDLINE on STN                    DUPLICATE 1
TI   Inhibition of protein geranylgeranylation and RhoA/RhoA kinase pathway
```

induces apoptosis in human endothelial cells.
SO The Journal of biological chemistry, (2002 May 3) Vol. 277, No. 18, pp. 15309-16. Electronic Publication: 2002-02-11.
Journal code: 2985121R. ISSN: 0021-9258.
AU Li Xianwu; Liu Li; Tupper Joan C; Bannerman Douglas D; Winn Robert K; Sebti Said M; Hamilton Andrew D; Harlan John M
AN 2002260101 MEDLINE

L134 ANSWER 3 OF 31 MEDLINE on STN DUPLICATE 2
TI Isoprenoids influence expression of Ras and Ras-related proteins.
SO Biochemistry, (2002 Nov 19) Vol. 41, No. 46, pp. 13698-704.
Journal code: 0370623. ISSN: 0006-2960.
AU Holstein Sarah A; Wohlford-Lenane Christine L; Hohl Raymond J
AN 2002667042 MEDLINE

L134 ANSWER 4 OF 31 Elsevier BIOBASE COPYRIGHT 2007 Elsevier Science B.V. on STN
AN 2001192470 ESBIOBASE
TI Regulation of pyruvate dehydrogenase activity through phosphorylation at multiple sites
AU Kolobova E.; Tuganova A.; Boulatnikov I.; Popov K.M.
CS K.M. Popov, Division of Molecular Biology, School of Biological Sciences, University of Missouri-Kansas City, Kansas City, MO 64110-2499, United States.
E-mail: popovk@umkc.edu
SO Biochemical Journal, (15 AUG 2001), 358/1 (69-77), 26 reference(s)
CODEN: BIJOAK ISSN: 0264-6021
DT Journal; Article
CY United Kingdom
LA English
SL English

L134 ANSWER 5 OF 31 EMBASE COPYRIGHT (c) 2007 Elsevier B.V. All rights reserved on STN
TI Zoledronate is a potent inhibitor of myeloma cell growth and secretion of IL-6 and MMP-1 by the tumoral environment.
SO Journal of Bone and Mineral Research, (1999) Vol. 14, No. 12, pp. 2048-2056. .
Refs: 42
ISSN: 0884-0431 CODEN: JBMREJ
AU Derenne S.; Amiot M.; Barille S.; Collette M.; Robillard N.; Berthaud P.; Harousseau J.-L.; Bataille R.
AN 2000018603 EMBASE

L134 ANSWER 6 OF 31 Elsevier BIOBASE COPYRIGHT 2007 Elsevier Science B.V. on STN
AN 1999189872 ESBIOBASE
TI Active isoprenoid pathway in the intra-erythrocytic stages of Plasmodium falciparum: Presence of dolichols of 11 and 12 isoprene units
AU Couto A.S.; Kimura E.A.; Peres V.J.; Uhrig M.L.; Katzin A.M.
CS A.M. Katzin, Departamento de Parasitologia, Instituto de Ciencias Biomedicas, Universidade de Sao Paulo, Av. Lineu Prestes 1374, CEP 05508-900 Sao Paulo SP, Brazil.
E-mail: amkatzin@icb.usp.br
SO Biochemical Journal, (01 AUG 1999), 341/3 (629-637), 50 reference(s)
CODEN: BIJOAK ISSN: 0264-6021
DT Journal; Article
CY United Kingdom
LA English
SL English

L134 ANSWER 7 OF 31 Elsevier BIOBASE COPYRIGHT 2007 Elsevier Science B.V. on STN
AN 1997181088 ESBIOBASE
TI The first step of aminoacylation at the atomic level in histidyl-tRNA

synthetase
AU Arnez J.G.; Augustine J.G.; Moras D.; Francklyn C.S.
CS D. Moras, Department of Biochemistry, College of Medicine, University of Vermont, Burlington, VT 05405, United States.
SO Proceedings of the National Academy of Sciences of the United States of America, (1997), 94/14 (7144-7149), 44 reference(s)
CODEN: PNASA6 ISSN: 0027-8424
DT Journal; Article
CY United States
LA English
SL English

L134 ANSWER 8 OF 31 Elsevier BIOBASE COPYRIGHT 2007 Elsevier Science B.V. on STN
AN 1997058360 ESBIOBASE
TI In vitro kinetic studies of formation of antigenic advanced glycation end products (AGEs). Novel inhibition of post-Amadori glycation pathways
AU Booth A.A.; Khalifah R.G.; Todd P.; Hudson B.G.
CS B.G. Hudson, Dept. of Biochemistry/Molec. Biology, University of Kansas Medical Center, 3901 Rainbow Blvd., Kansas City, KS 66160-7421, United States.
E-mail: bhudson@kumc.edu
SO Journal of Biological Chemistry, (1997), 272/9 (5430-5437), 76 reference(s)
CODEN: JBCHA3 ISSN: 0021-9258
DT Journal; Article
CY United States
LA English
SL English

L134 ANSWER 9 OF 31 HCAPLUS COPYRIGHT 2007 ACS on STN
TI HMG CoA reductase inhibitor-induced myotoxicity: pravastatin and lovastatin inhibit the geranylgeranylation of low-molecular-weight proteins in neonatal rat muscle cell culture
SO Toxicology and Applied Pharmacology (1997), 145(1), 99-110
CODEN: TXAPA9; ISSN: 0041-008X
AU Flint, Oliver P.; Masters, Barbara A.; Gregg, Richard E.; Durham, Stephen K.
AN 1997:439283 HCAPLUS
DN 127:156552

L134 ANSWER 10 OF 31 MEDLINE on STN DUPLICATE 3
TI Inhibition of cholesterol synthesis by squalene synthase inhibitors does not induce myotoxicity in vitro.
SO Toxicology and applied pharmacology, (1997 Jul) Vol. 145, No. 1, pp. 91-8.
Journal code: 0416575. ISSN: 0041-008X.
AU Flint O P; Masters B A; Gregg R E; Durham S K
AN 97364879 MEDLINE

L134 ANSWER 11 OF 31 MEDLINE on STN DUPLICATE 4
TI Monoterpenes as regulators of malignant cell proliferation.
SO Advances in experimental medicine and biology, (1996) Vol. 401, pp. 137-46. Ref: 43
Journal code: 0121103. ISSN: 0065-2598.
AU Hohl R J
AN 97040842 MEDLINE

L134 ANSWER 12 OF 31 SCISEARCH COPYRIGHT (c) 2007 The Thomson Corporation on STN DUPLICATE 5
TI CHEMICAL AND BIOLOGICAL REDUCTION OF MN(III)-PYROPHOSPHATE COMPLEXES - POTENTIAL IMPORTANCE OF DISSOLVED MN(III) AS AN ENVIRONMENTAL OXIDANT
SO GEOCHIMICA ET COSMOCHIMICA ACTA, (MAR 1995) Vol. 59, No. 5, pp. 885-894.
ISSN: 0016-7037.
AU KOSTKA J E (Reprint); LUTHER G W; NEALSON K H

AN 1995:217940 SCISEARCH

L134 ANSWER 13 OF 31 EMBASE COPYRIGHT (c) 2007 Elsevier B.V. All rights reserved on STN
TI Cerebellar α-ketoglutarate dehydrogenase activity is reduced in spinocerebellar ataxia type 1.
SO Annals of Neurology, (1994) Vol. 35, No. 5, pp. 624-626. .
ISSN: 0364-5134 CODEN: ANNED3
AU Mastrogiacomo F.; Kish S.J.
AN 94155029 EMBASE

L134 ANSWER 14 OF 31 Elsevier BIOBASE COPYRIGHT 2007 Elsevier Science B.V. on STN
AN 1995008659 ESBIOBASE
TI Farnesylation of p21 Ras proteins in Xenopus oocytes
AU Zhao J.; Kung H.-F.; Manne V.
CS H.-F. Kung, Lab. of Biochemical Physiology, Div. Cancer Treat., Nat. Cancer Ist., Cancer Res. and Development Center, Frederick, MD 21702-1201, United States.
SO Cellular and Molecular Biology Research, (1994), 40/4 (313-321)
CODEN: CMBREW ISSN: 0968-8773
DT Journal; Article
CY United Kingdom
LA English
SL English

L134 ANSWER 15 OF 31 MEDLINE on STN DUPLICATE 6
TI Isopentenoid synthesis in eukaryotic cells. An initiating role for post-translational control of 3-hydroxy-3-methylglutaryl coenzyme A reductase.
SO Archives of biochemistry and biophysics, (1993 Apr) Vol. 302, No. 1, pp. 265-71.
Journal code: 0372430. ISSN: 0003-9861.
AU Giron M D; Havel C M; Watson J A
AN 93228354 MEDLINE

L134 ANSWER 16 OF 31 MEDLINE on STN DUPLICATE 7
TI Regulation of glucose metabolism in livers and kidneys of NOD mice.
SO Diabetes, (1991 Nov) Vol. 40, No. 11, pp. 1467-71.
Journal code: 0372763. ISSN: 0012-1797.
AU Sochor M; Kunjara S; Baquer N Z; McLean P
AN 92038500 MEDLINE

L134 ANSWER 17 OF 31 MEDLINE on STN DUPLICATE 8
TI Coordinate regulation of 3-hydroxy-3-methylglutaryl-coenzyme A synthase, 3-hydroxy-3-methylglutaryl-coenzyme A reductase, and prenyltransferase synthesis but not degradation in HepG2 cells.
SO The Journal of biological chemistry, (1989 Jul 25) Vol. 264, No. 21, pp. 12653-6.
Journal code: 2985121R. ISSN: 0021-9258.
AU Rosser D S; Ashby M N; Ellis J L; Edwards P A
AN 89308702 MEDLINE

L134 ANSWER 18 OF 31 MEDLINE on STN DUPLICATE 9
TI Antineoplastic activity of a series of boron analogues of alpha-amino acids.
SO Journal of pharmaceutical sciences, (1985 Jul) Vol. 74, No. 7, pp. 755-8.
Journal code: 2985195R. ISSN: 0022-3549.
AU Hall I H; Gilbert C J; McPhail A T; Morse K W; Hassett K; Spielvogel B F
AN 85292590 MEDLINE

L134 ANSWER 19 OF 31 MEDLINE on STN
TI Effect of selected dietary buffers upon utilization of concentrate- or roughage-based cattle diets: laboratory studies.
SO Journal of animal science, (1984 Jul) Vol. 59, No. 1, pp. 227-36.

Journal code: 8003002. ISSN: 0021-8812.
AU Hall M W; Thomas E E
AN 84264158 MEDLINE

L134 ANSWER 20 OF 31 MEDLINE on STN DUPLICATE 10
TI Antitumor agents XLVII: The effects of bisbrusatolyl malonate on P-388 lymphocytic leukemia cell metabolism.
SO Journal of pharmaceutical sciences, (1982 Feb) Vol. 71, No. 2, pp. 257-62.
Journal code: 2985195R. ISSN: 0022-3549.
AU Hall I H; Liou Y F; Lee K H; Okano M; Chaney S G
AN 82145205 MEDLINE

L134 ANSWER 21 OF 31 MEDLINE on STN DUPLICATE 11
TI Antitumor agents. XXXIV: Mechanism of action of bruceoside A and brusatol on nucleic acid metabolism of P-388 lymphocytic leukemia cells.
SO Journal of pharmaceutical sciences, (1979 Jul) Vol. 68, No. 7, pp. 883-7.
Journal code: 2985195R. ISSN: 0022-3549.
AU Hall I H; Lee K H; Eigebaly S A; Imakura Y; Sumida Y; Wu R Y
AN 79218417 MEDLINE

L134 ANSWER 22 OF 31 MEDLINE on STN DUPLICATE 12
TI Central role for magnesium in coordinate control of metabolism and growth in animal cells.
SO Proceedings of the National Academy of Sciences of the United States of America, (1975 Sep) Vol. 72, No. 9, pp. 3551-5.
Journal code: 7505876. ISSN: 0027-8424.
AU Rubin H
AN 76053160 MEDLINE

L134 ANSWER 23 OF 31 MEDLINE on STN DUPLICATE 13
TI Defects of two temperature-sensitive lysyl-transfer ribonucleic acid synthetase mutants of Bacillus subtilis.
SO Journal of bacteriology, (1974 Oct) Vol. 120, No. 1, pp. 372-83.
Journal code: 2985120R. ISSN: 0021-9193.
AU Racine F M; Steinberg W
AN 75021370 MEDLINE

L134 ANSWER 24 OF 31 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Reversible inhibition by histidinol of protein synthesis in human cells at the activation of histidine
SO Journal of Biological Chemistry (1972), 247(12), 3854-7
CODEN: JBCHA3; ISSN: 0021-9258
AU Hansen, Bent S.; Vaughan, Maurice H.; Wang, Li-Jen
AN 1972:470912 HCAPLUS
DN 77:70912

L134 ANSWER 25 OF 31 MEDLINE on STN DUPLICATE 14
TI Properties and substrate specificities of the phenylalanyl-transfer-ribonucleic acid synthetases of Aesculus species.
SO The Biochemical journal, (1970 Oct) Vol. 119, No. 4, pp. 677-90.
Journal code: 2984726R. ISSN: 0264-6021.
AU Anderson J W; Fowden L
AN 71081324 MEDLINE

L134 ANSWER 26 OF 31 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Rate law and mechanism of the adenosine triphosphate-pyrophosphate isotope exchange reaction of amino acyl transfer ribonucleic acid synthetases
SO Biochemistry (1970), 9(3), 480-9
CODEN: BICHAW; ISSN: 0006-2960
AU Cole, Francis X.; Schimmel, Paul R.
AN 1970:86629 HCAPLUS
DN 72:86629

L134 ANSWER 27 OF 31 MEDLINE on STN DUPLICATE 15
TI The purification and properties of the alanyl-transfer ribonucleic acid

synthetase of tomato roots.
SO The Biochemical journal, (1965 Sep) Vol. 96, No. 3, pp. 616-25.
Journal code: 2984726R. ISSN: 0264-6021.
AU Attwood M M; Cocking E C
AN 66094618 MEDLINE

L134 ANSWER 28 OF 31 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Pentose phosphate pathway, steroidogenesis, and protein synthesis
SO Biochimica et Biophysica Acta, General Subjects (1965), 100(2), 612-15
CODEN: BBGSB3; ISSN: 0304-4165
AU McKerns, Kenneth W.
AN 1965:425562 HCAPLUS
DN 63:25562
OREF 63:4607g-h

L134 ANSWER 29 OF 31 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Activity of amino acid-activating enzymes in tissues from protein-depleted rats
SO Journal of Nutrition (1964), 84(2), 173-8
CODEN: JONUAI; ISSN: 0022-3166
AU Gaetani, S.; Paolucci, A. M.; Spadoni, M. A.; Tomassi, G.
AN 1964:486475 HCAPLUS
DN 61:86475
OREF 61:15101a-c

L134 ANSWER 30 OF 31 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Protein synthesis in poisoning. III. Labeling of pH 5 enzyme with glycine-C14 and inhibition by p-chloromercuribenzoate
SO Acta Medica Okayama (1962), 16(No. 1), 9-14
CODEN: AMOKAG; ISSN: 0386-300X
AU Ogata, Masana
AN 1963:76157 HCAPLUS
DN 58:76157
OREF 58:13043g-h

L134 ANSWER 31 OF 31 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Effect of chemical agents on nucleic acid and protein synthesis in rat tumor tissue in vivo
SO Brit. J. Radiol. (1953), 26, 326-8
AU Holmes, Barbara E.; Mee, Lorna K.
AN 1953:67518 HCAPLUS
DN 47:67518
OREF 47:11461b-d

=> d 31

L134 ANSWER 31 OF 31 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Effect of chemical agents on nucleic acid and protein synthesis in rat tumor tissue in vivo
SO Brit. J. Radiol. (1953), 26, 326-8
AU Holmes, Barbara E.; Mee, Lorna K.
AN 1953:67518 HCAPLUS
DN 47:67518
OREF 47:11461b-d

=> d ab 31

L134 ANSWER 31 OF 31 HCAPLUS COPYRIGHT 2007 ACS on STN
AB X-radiation (2000 r.) applied to the Jensen rat sarcoma in vivo reduced the uptake of P32 into the deoxyribonucleic acid fraction. X-radiation did not reduce the uptake of P32 into the ribonucleic acid fraction, nor did it reduce the uptake of methionine into proteins;

2,4-dinitrophenol, Na pyrophosphate, and adenyl pyrophosphate reduce the uptake of P32 into both nucleic acid fractions and reduce the uptake of methionine into the ribonucleoprotein and the heat-coagulable protein fractions.

```
=> fil .becpat
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                          ENTRY    SESSION
FULL ESTIMATED COST                                      267.43     267.85

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)              SINCE FILE      TOTAL
                                                          ENTRY    SESSION
CA SUBSCRIBER PRICE                                       -0.78      -0.78

FILES 'BIOTECHDS, HCAPLUS, WPIDS' ENTERED AT 12:54:23 ON 25 APR 2007
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3 FILES IN THE FILE LIST

=> s (l36 or l60 or l84 or l121) and wo/pc and pry<=2002 and py>=2003 range=2003,
FILE 'BIOTECHDS'
         29240 WO/PC
         33572 PRY<=2002
                 (PRY<=2002)
        112950 PY>=2003
                 (PY>=2003)
L135         0 (L28 OR L52 OR L76 OR L113) AND WO/PC AND PRY<=2002 AND PY>=2003

FILE 'HCAPLUS'
        285064 WO/PC
        741362 PRY<=2002
       4817103 PY>=2003
L136         3 (L31 OR L55 OR L79 OR L116) AND WO/PC AND PRY<=2002 AND PY>=2003

FILE 'WPIDS'
        519670 WO/PC
       1593340 PRY<=2002
       3415897 PY>=2003
                 (PY>=2003)
L137         1 (L35 OR L59 OR L83 OR L120) AND WO/PC AND PRY<=2002 AND PY>=2003

TOTAL FOR ALL FILES
L138         4 (L36 OR L60 OR L84 OR L121) AND WO/PC AND PRY<=2002 AND PY>=2003

=> dup rem l138
PROCESSING COMPLETED FOR L138
L139          3 DUP REM L138 (1 DUPLICATE REMOVED)

=> d tot

L139 ANSWER 1 OF 3  HCAPLUS  COPYRIGHT 2007 ACS on STN DUPLICATE 1
TI   In vitro synthesis of biological macromolecules in a cell-free system
     enriched with ATP sulfurylase
SO   Eur. Pat. Appl., 15 pp.
     CODEN: EPXXDW
IN   Ryabova, Lyubov; Masson, Jean-Michel
AN   2004:97253  HCAPLUS
DN   140:141427
     PATENT NO.          KIND   DATE        APPLICATION NO.        DATE
     ---------------     ----   --------    --------------------   --------
PI   EP 1386962           A1    20040204    EP 2002-291959         20020802 <--
        R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK
     CA 2493623           A1    20040219    CA 2003-2493623        20030725 <--
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WO 2004015059 A2 20040219 WO 2003-IB3936 20030725 <--
WO 2004015059 A3 20040422
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
AU 2003260827 A1 20040225 AU 2003-260827 20030725 <--
EP 1525305 A2 20050427 EP 2003-784438 20030725 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
JP 2006500924 T 20060112 JP 2004-527251 20030725 <--
US 2006166306 A1 20060727 US 2005-522879 20050930 <--

L139 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Cloning and physical characterization of microbial polypeptides involved in protein synthesis and modification and their use as antimicrobial targets
SO PCT Int. Appl., 606 pp.
CODEN: PIXXD2
IN Edwards, Aled; Dharamsi, Akil; Vedadi, Masoud; Vallee, Francois; Awrey, Donald; Beattie, Bryan; Richards, Dawn; Domagala, Megan; Mansoury, Kamran; Virag, Cristina; Buzadzija, Kristina; McDonald, Merry-Lynn; Houston, Simon; Arrowsmith, Cheryl; Ouyang, Hui
AN 2003:972222 HCAPLUS
DN 140:37977

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2003102190	A2	20031211	WO 2003-CA786	20030602 <--
WO 2003102190	A3	20040521		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
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AU 2003229205 A1 20031219 AU 2003-229205 20030602 <--

L139 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Methods for nucleic acid quantification of pathogens using bioluminescence regenerative cycling of pyrophosphate
SO U.S. Pat. Appl. Publ., 24 pp.
CODEN: USXXCO
IN Hassibi, Arjang; Pourmand, Nader
AN 2003:334507 HCAPLUS
DN 138:349668

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 2003082583	A1	20030501	US 2002-186455	20020628 <--
US 7141370	B2	20061128		
WO 2003087388	A2	20031023	WO 2002-US20690	20020628 <--
WO 2003087388	A3	20040304		
WO 2003087388	A9	20040521		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,

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PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
UA, UG, US, UZ, VN, YU, ZA, ZM, ZW
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GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2002367744 A1 20031027 AU 2002-367744 20020628 <--
EP 1415004 A2 20040506 EP 2002-807235 20020628 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

=> d ab 2

L139 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2007 ACS on STN
AB The present invention relates to polypeptide targets for pathogenic bacteria. Reliable, high throughput methods are developed to identify, express, and purify a number of antimicrobial targets from Staphylococcus aureus, Escherichia coli, Streptococcus pneumoniae, Enterococcus faecalis, Helicobacter pylori, and Pseudomonas aeruginosa. The invention also provides bioinformatic, biochem. and biophys. characteristics of those polypeptides, in particular characterization by mass spectrometry, NMR spectrometry, and x-ray crystallog.

=> log y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	28.33	296.18
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.78	-1.56

STN INTERNATIONAL LOGOFF AT 12:58:49 ON 25 APR 2007